

Francesca Di Lodovico

List of Publications by Year in descending order

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Version: 2024-02-01

160
papers

9,743
citations

41344

49
h-index

38395

95
g-index

166
all docs

166
docs citations

166
times ranked

8558
citing authors

#	ARTICLE	IF	CITATIONS
1	Measurement of the neutrino-oxygen neutral-current quasielastic cross section using atmospheric neutrinos at Super-Kamiokande. Physical Review D, 2019, 99, . Measurement of the $\langle \mathcal{B} \rangle$	4.7	12
2	Measurement of the solar neutrino flux in $\langle \mathcal{SNO} \rangle$	4.7	23
3	Search for Neutrinos in Super-Kamiokande Associated with the GW170817 Neutron-star Merger. Astrophysical Journal Letters, 2018, 857, L4.	8.3	30
4	Measurement of the single $\bar{\nu}_e$ production rate in neutral current neutrino interactions on water. Physical Review D, 2018, 97, .	4.7	4
5	Measurement of the tau neutrino cross section in atmospheric neutrino oscillations with Super-Kamiokande. Physical Review D, 2018, 98, . Search for $\langle \mathcal{C} \rangle \langle \mathcal{P} \rangle$	4.7	32
6	Violation in Neutrino and Antineutrino Oscillations by the T2K Experiment with $\langle 2.2 \rangle \langle \mathcal{A} \rangle \langle \mathcal{M} \rangle \langle 10 \rangle \langle 21 \rangle$	7.8	165
7	Protons on Target. Physical Review Letters, 2018, 121, 171802. Physics potentials with the second Hyper-Kamiokande detector in Korea. Progress of Theoretical and Experimental Physics, 2018, 2018, .	6.6	77
8	Search for Boosted Dark Matter Interacting with Electrons in Super-Kamiokande. Physical Review Letters, 2018, 120, 221301.	7.8	49
9	Atmospheric neutrino oscillation analysis with external constraints in Super-Kamiokande I-IV. Physical Review D, 2018, 97, .	4.7	124
10	Measurement of inclusive double-differential $\hat{1}/2 \hat{1}/4$ charged-current cross section with improved acceptance in the T2K off-axis near detector. Physical Review D, 2018, 98, .	4.7	23
11	Characterization of nuclear effects in muon-neutrino scattering on hydrocarbon with a measurement of final-state kinematics and correlations in charged-current pionless interactions at T2K. Physical Review D, 2018, 98, .	4.7	66
12	Search for Lorentz and $\langle \mathcal{C} \rangle \langle \mathcal{P} \rangle \langle \mathcal{T} \rangle$ violation using sidereal time dependence of neutrino flavor transitions over a short baseline. Physical Review D, 2017, 95, .	4.7	19
13	First measurement of the muon neutrino charged current single pion production cross section on water with the T2K near detector. Physical Review D, 2017, 95, .	4.7	33
14	Updated T2K measurements of muon neutrino and antineutrino disappearance using $\langle 1.5 \rangle \langle \mathcal{A} \rangle \langle 1 \rangle \langle 0 \rangle$	4.7	23
15	Search for Lorentz and $\langle 1.5 \rangle \langle \mathcal{A} \rangle \langle 1 \rangle \langle 0 \rangle$ protons on target. Physical Review D, 2017, 96, .	4.7	23
15	Combined Analysis of Neutrino and Antineutrino Oscillations at T2K. Physical Review Letters, 2017, 118, 151801.	7.8	146
16	Measurement of $\hat{1}/2 \hat{1}/4$ and $\hat{1}/2 \hat{1}/4$ charged current inclusive cross sections and their ratio with the T2K off-axis near detector. Physical Review D, 2017, 96, .	4.7	9
17	Current Status and Future Prospects of the SNO+ Experiment. Advances in High Energy Physics, 2016, 2016, 1-21. Tests of $\langle \mathcal{C} \rangle \langle \mathcal{P} \rangle \langle \mathcal{T} \rangle$	1.1	185
18	symmetry in $\langle \mathcal{B} \rangle \langle \mathcal{M} \rangle \langle 0 \rangle \langle 1 \rangle$	4.7	14

#	ARTICLE	IF	CITATIONS
19	Search for a muonic dark force at $BaBar$. Physical Review D, 2016, 94, .	4.7	108
20	Measurement of the $1/2K_S^0$ -S-wave amplitude from Dalitz plot analyses of $\pi^+\pi^-K_S^0$ in two-photon interactions. Physical Review D, 2016, 93, .	4.7	9
21	Upper bound on neutrino mass based on T2K neutrino timing measurements. Physical Review D, 2016, 93, .	4.7	2
22	Search for mixing-induced CP violation using partial reconstruction of B^0 decays. Physical Review D, 2016, 93, .	4.7	3
23	Time-dependent analysis of $B^0 \rightarrow K^0 \pi^0$ decays. Physical Review D, 2016, 93, .	4.7	7
24	Measurement of angular asymmetries in the decays $B^0 \rightarrow K^0 \pi^0$. Physical Review D, 2016, 93, .	4.7	29
25	Measurement of the muon neutrino inclusive charged-current cross section in the energy range of $1 \leq E_\nu \leq 3$ GeV with the T2K INGRID detector. Physical Review D, 2016, 93, .	4.7	14
26	Measurement of the neutral D meson mixing parameters in a time-dependent amplitude analysis of the $D^0 \rightarrow \pi^+ \pi^-$ decay. Physical Review D, 2016, 93, .	4.7	9
27	Measurement of $B^0 \rightarrow D^0 \pi^0$ decays. Physical Review D, 2016, 93, .	7.8	14
28	Measurement of Muon Antineutrino Oscillations with an Accelerator-Produced Off-Axis Beam. Physical Review Letters, 2016, 116, 181801.	7.8	31
29	Measurement of double-differential muon neutrino charged-current interactions on C_8H_8 without pions in the final state using the T2K off-axis beam. Physical Review D, 2016, 93, .	4.7	77
30	Measurement of Coherent μ^+e^- Production in Low Energy Neutrino-Carbon Scattering. Physical Review Letters, 2016, 117, 192501.	7.8	2
31	Neutrino oscillation physics potential of the T2K experiment. Progress of Theoretical and Experimental Physics, 2015, 2015, .	6.6	32
32	Measurement of the $D^0 \rightarrow \pi^+ \pi^-$ decay branching fraction as a function of $\cos \theta$. Physical Review D, 2015, 92, .	4.7	28
33	Search for a light Higgs resonance in radiative decays of the $\psi(1S)$ with a charm tag. Physical Review D, 2015, 91, .	4.7	8
34	Study of the $B^0 \rightarrow K^0 \pi^0$ decays in the energy range from 2.6 to 8.0 GeV. Physical Review D, 2015, 92, .	4.7	2
35	Measurement of initial-state π^+ final-state radiation interference in the processes $B^0 \rightarrow \pi^+ \pi^-$. Physical Review D, 2015, 92, .	4.7	1
36	First Observation of $B^0 \rightarrow K^0 \pi^0$ Violation in B^0 decays. Physical Review D, 2015, 92, .	7.8	14

#	ARTICLE	IF	CITATIONS
55	Measurement of the intrinsic electron neutrino component in the T2K neutrino beam with the ND280 detector. Physical Review D, 2014, 89, .	4.7	26
56	Measurement of the neutrino-oxygen neutral-current interaction cross section by observing nuclear deexcitation rays. Physical Review D, 2014, 90, .	4.7	20
57	Measurements of direct CP asymmetries in $B \rightarrow X s^3$ decays using sum of exclusive decays. Physical Review D, 2014, 90, .	4.7	11
58	Evidence for the decay $B \rightarrow \pi^0 \pi^0$ and search for $B \rightarrow \pi^0 \pi^0$. Physical Review D, 2014, 89, .	4.7	4
59	Cross sections for the reactions $e^+e^- \rightarrow K^+K^-S^0$. Physical Review D, 2014, 89, .	4.7	4
60	Search for the decay $B \rightarrow \pi^0 \pi^0$. Physical Review D, 2014, 89, .	4.7	4
61	Measurement of Collins asymmetries in inclusive production of charged pion pairs in BABAR. Physical Review D, 2014, 90, .	4.7	80
62	Measurement of the fraction and search for direct CP violation in $B \rightarrow X s$. Physical Review Letters, 2014, 112, .	7.8	78
63	Dalitz plot analysis of $B \rightarrow K^+K^-e^+e^-$. Physical Review D, 2014, 90, .	4.7	34
64	Evidence for the baryonic decay $B \rightarrow \pi^0 \pi^0$. Physical Review D, 2014, 90, .	4.7	7
65	Antideuteron production in $B \rightarrow \pi^0 \pi^0$. Physical Review D, 2014, 90, .	4.7	77
66	Observation of Electron Neutrino Appearance in a Muon Neutrino Beam. Physical Review Letters, 2014, 112, 061802.	7.8	369
68	Measurement of the inclusive charged current cross section on iron and hydrocarbon in the T2K on-axis neutrino beam. Physical Review D, 2014, 90, .	4.7	38
69	Search for a Dark Photon in $B \rightarrow \pi^0 \pi^0$. Physical Review Letters, 2014, 113, 201801.	4.7	10
70	Precise Measurement of the Neutrino Mixing Parameter θ_{23} from Muon Neutrino Disappearance in an Off-Axis Beam. Physical Review Letters, 2014, 112, 181801.	7.8	168
71	The mass-hierarchy and CP-violation discovery reach of the LBNO long-baseline neutrino experiment. Journal of High Energy Physics, 2014, 2014, 1.	4.7	41
72	Search for lepton-number violating $B \rightarrow X^+ X^0 \pi^0$ decays. Physical Review D, 2014, 89, .	4.7	25

#	ARTICLE	IF	CITATIONS
73	Recent Results from the T2K Experiment. Nuclear Physics, Section B, Proceedings Supplements, 2014, 246-247, 23-28.	0.4	2
74	Latest Results from T2K and Hyper-Kamiokande Perspectives. Journal of Physics: Conference Series, 2014, 556, 012061.	0.4	0
75	Experience of a low-maintenance distributed data management system. Journal of Physics: Conference Series, 2014, 513, 032095.	0.4	1
76	T2K neutrino flux prediction. Physical Review D, 2013, 87, .	4.7	165
77	Measurement of the inclusive $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> < \text{mml:msub} < \text{mml:mi} > \hat{1}/2 < / \text{mml:mi} > < \text{mml:mi} > \hat{1}/4 < / \text{mml:mi} > < / \text{mml:msub} > < / \text{mml:math} >$ charged current cross section on carbon in the near detector of the T2K experiment. Physical Review D, 2013, 87, .	4.7	94
78	Measurement of Neutrino Oscillation Parameters from Muon Neutrino Disappearance with an Off-Axis Beam. Physical Review Letters, 2013, 111, 211803.	7.8	79
79	The BB detector: Upgrades, operation and performance. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 729, 110-114.	1.6	148
80	Time-integrated luminosity recorded by the BABAR detector at the PEP-II $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0120.gif" overflow="scroll"> < \text{mml:mrow} < \text{mml:mi} < \text{mml:math variant="normal"> > e < / \text{mml:mi} > < / \text{mml:mrow} > < \text{mml:mrow} < \text{mml:mo} > + < / \text{mml:mo} > < / \text{mml:mrow} > < / \text{mml:mrow} > < / \text{mml:math} >$ collider. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 729, 115-118.	1.6	148
81	Evidence of electron neutrino appearance in a muon neutrino beam. Physical Review D, 2013, 88, .	4.7	116
82	The electromagnetic calorimeter for the T2K near detector ND280. Journal of Instrumentation, 2013, 8, P10019-P10019.	1.2	53
83	Publisher's Note: Search for di-muon decays of a low-mass Higgs boson in radiative decays of the $\Upsilon(1S)$ [Phys. Rev. D 87, 031102(R) (2013)]. Physical Review D, 2013, 87, .	4.7	10
84	Branching fraction measurement of $B \rightarrow \hat{1}/2$ decays. Physical Review D, 2013, 87, .	4.7	15
85	Search for direct Cabibbo-suppressed $D \rightarrow \hat{1}/2$ violation in singly Cabibbo-suppressed $D \rightarrow \hat{1}/2$ decays. Physical Review D, 2013, 87, .	4.7	9
86	Search for a low-mass scalar Higgs boson decaying to a tau pair in single-photon decays of $\Upsilon(1S)$. Physical Review D, 2013, 88, .	4.7	31
87	Publisher's Note: T2K neutrino flux prediction [Phys. Rev. D 87, 012001 (2013)]. Physical Review D, 2013, 87, .	4.7	40
88	Study of $e^+e^- \rightarrow p\bar{p} \gamma$ via initial-state radiation at BABAR. Physical Review D, 2013, 87, .	4.7	122
89	Search for natural linewidth and the $B \rightarrow \hat{1}/2$ decays. Physical Review D, 2013, 87, .	4.7	17
90	Search for $B \rightarrow \hat{1}/2$ and invisible quarkonium decays. Physical Review D, 2013, 87, .	4.7	113

#	ARTICLE	IF	CITATIONS
91	Search for CP violation in $B^0\text{-}B^0$ mixing using partial reconstruction of $B^0 \rightarrow D^* \bar{X}_s$, " $\frac{1}{2}$," and a Kaon Tag. <i>Physical Review Letters</i> , 2013, 111, 101802. Measurement of the $B^0 \rightarrow D^* \bar{X}_s$ cross section in charmless two-body meson decays to pions and kaons. <i>Physical Review D</i> , 2013, 87, .	7.8	24
92	Meson Width and the $B \rightarrow D^* \bar{X}_s$ cross section in charmless two-body meson decays to pions and kaons. <i>Physical Review D</i> , 2013, 87, .	7.8	33
93	Precision measurement of the $B^0 \rightarrow D^* \bar{X}_s$ cross section in charmless two-body meson decays to pions and kaons. <i>Physical Review D</i> , 2013, 87, .	4.7	74
94	Search for di-muon decays of a low-mass Higgs boson in radiative decays of the $B^0 \rightarrow D^* \bar{X}_s$ cross section in charmless two-body meson decays to pions and kaons. <i>Physical Review D</i> , 2013, 87, .	4.7	42
95	Search for CP violation in the decays $D_s^+ \rightarrow K^0 S^0$, $D_s^+ \rightarrow K^+ S^0$, and $D_s^+ \rightarrow K^+ S^0$. <i>Physical Review D</i> , 2013, 87, .	4.7	11
97	Measurement of the $B^0 \rightarrow D^* \bar{X}_s$ cross section in charmless two-body meson decays to pions and kaons. <i>Physical Review D</i> , 2013, 87, .	4.7	63
98	Measurement of the $B^0 \rightarrow D^* \bar{X}_s$ cross section in charmless two-body meson decays to pions and kaons. <i>Physical Review D</i> , 2013, 87, .	4.7	41
99	Production of charged pions, kaons, and protons in $B \rightarrow D^* \bar{X}_s$ decays. <i>Physical Review D</i> , 2013, 88, .	4.7	9
100	Measurement of the mass of the D^0 meson. <i>Physical Review D</i> , 2013, 88, .	4.7	49
101	Search for a light Higgs boson decaying to two gluons or $B \rightarrow D^* \bar{X}_s$ in the radiative decays of $B^0 \rightarrow D^* \bar{X}_s$. <i>Physical Review D</i> , 2013, 88, .	4.7	9
102	Measurement of the $B^0 \rightarrow D^* \bar{X}_s$ cross section in charmless two-body meson decays to pions and kaons. <i>Physical Review D</i> , 2013, 87, .		

#	ARTICLE	IF	CITATIONS
109	T2K results and future plans. Journal of Physics: Conference Series, 2013, 408, 012004. Precise measurement of the $e^+e^- \rightarrow \mu^+\mu^- \nu\bar{\nu}$ process at the Belle II experiment	0.4	0
110	Measurement of the $B \rightarrow K^* \mu^+ \mu^-$ decay at Belle II		

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127	Search for the decay $D^0 \rightarrow \pi^+ \pi^- \pi^0$. Physical Review D, 2012, 85, . $D^0 \rightarrow \pi^+ \pi^- \pi^0$	4.7	4
128	Evidence for an Excess of $D^0 \rightarrow \pi^+ \pi^- \pi^0$ Decays. Physical Review D, 2012, 85, . $D^0 \rightarrow \pi^+ \pi^- \pi^0$	4.7	3
129	Study of the reaction $D^0 \rightarrow \pi^+ \pi^- \pi^0$ at BABAR. Physical Review D, 2012, 86, . $D^0 \rightarrow \pi^+ \pi^- \pi^0$	4.7	8
130	Branching fraction of $D^0 \rightarrow \pi^+ \pi^- \pi^0$ decays. Physical Review D, 2012, 86, .	4.7	10
131	Improved limits on $D^0 \rightarrow \pi^+ \pi^- \pi^0$ decays to invisible. Physical Review D, 2012, 86, . $D^0 \rightarrow \pi^+ \pi^- \pi^0$	4.7	18
132	Search for resonances decaying to $D^0 \rightarrow \pi^+ \pi^- \pi^0$ two-photon interactions. Physical Review D, 2012, 86, . $D^0 \rightarrow \pi^+ \pi^- \pi^0$	4.7	8
133	Search for resonances decaying to $D^0 \rightarrow \pi^+ \pi^- \pi^0$ decays in $D^0 \rightarrow \pi^+ \pi^- \pi^0$. Physical Review D, 2012, 86, . $D^0 \rightarrow \pi^+ \pi^- \pi^0$	4.7	22
134	Search for the decay $D^0 \rightarrow \pi^+ \pi^- \pi^0$ and measurement of the branching fraction for $D^0 \rightarrow \pi^+ \pi^- \pi^0$. Physical Review D, 2012, 85, .	4.7	23
135	Observation of Time-Reversal Violation in the $D^0 \rightarrow \pi^+ \pi^- \pi^0$ Meson System. Physical Review Letters, 2012, 109, 211801.	7.8	118
136	Search for $D^0 \rightarrow \pi^+ \pi^- \pi^0$ decays in events with a fully reconstructed B meson. Physical Review D, 2012, 85, .	4.7	1
137	Measurement of the semileptonic branching fraction of the $D^0 \rightarrow \pi^+ \pi^- \pi^0$ meson. Physical Review D, 2012, 85, . $D^0 \rightarrow \pi^+ \pi^- \pi^0$	4.7	12
138	Search for $D^0 \rightarrow \pi^+ \pi^- \pi^0$ violation in the decay $D^0 \rightarrow \pi^+ \pi^- \pi^0$. Physical Review D, 2012, 85, . $D^0 \rightarrow \pi^+ \pi^- \pi^0$	4.7	33
139	Observation and study of the baryonic B-meson decays $B^0 \rightarrow D^+ \pi^-$. Physical Review D, 2012, 85, . $B^0 \rightarrow D^+ \pi^-$	4.7	21
140	Search for $D^0 \rightarrow \pi^+ \pi^- \pi^0$ violation in Dalitz-plot analyses of $D^0 \rightarrow \pi^+ \pi^- \pi^0$. Physical Review D, 2012, 85, . $D^0 \rightarrow \pi^+ \pi^- \pi^0$	4.7	11
141	Search for the $D^0 \rightarrow \pi^+ \pi^- \pi^0$ violation in Dalitz-plot analyses of $D^0 \rightarrow \pi^+ \pi^- \pi^0$. Physical Review D, 2012, 85, . $D^0 \rightarrow \pi^+ \pi^- \pi^0$	4.7	7
142	Search for the $D^0 \rightarrow \pi^+ \pi^- \pi^0$ violation in Dalitz-plot analyses of $D^0 \rightarrow \pi^+ \pi^- \pi^0$. Physical Review D, 2012, 85, . $D^0 \rightarrow \pi^+ \pi^- \pi^0$	4.7	50
143	Measurements of the T2K neutrino beam properties using the INGRID on-axis near detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 694, 211-223. $D^0 \rightarrow \pi^+ \pi^- \pi^0$	4.7	39
144	Measurements of the T2K neutrino beam properties using the INGRID on-axis near detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 694, 211-223.	1.6	86

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145	Amplitude analysis of $B \rightarrow 0 \nu \nu$ evidence of direct CP-violation in $B \rightarrow C P$. Physical Review D, 2011, 83, .	4.7	28
146	Measurements of branching fractions, polarizations, and direct CP-violation asymmetries in $B \rightarrow 0 K^* \nu \nu$ and $B \rightarrow 0 (980) K^* \nu \nu$ decays. Physical Review D, 2011, 83, .	4.7	8
147	Measurement of partial branching fractions of inclusive charmless B meson decays to K^+, K^0 , and \bar{K}^0 . Physical Review D, 2011, 83, .	4.7	4
148	Measurement of the mass and width of the $D_{s1}(2536)^+$ meson. Physical Review D, 2011, 83, .	4.7	13
149	Evidence for the $h_b(1P)$ meson in the decay $\Upsilon(3S) \rightarrow 0 h_b(1P)$. Physical Review D, 2011, 84, .	4.7	28
150	Indication of Electron Neutrino Appearance from an Accelerator-Produced Off-Axis Muon Neutrino Beam. Physical Review Letters, 2011, 107, 041801.	7.8	1,054
151	Measurement of the $B \rightarrow 0 \nu \nu$ branching fraction. Physical Review D, 2011, 83, .	4.7	100
152	Branching fraction measurements of the color-suppressed decays $B \rightarrow 0 D^{(*)} 0$, $D^{(*)} 0$, and $D^{(*)} 0 \nu \nu$ and measurement of the polarization in the decay $B \rightarrow 0 \nu \nu$. Physical Review D, 2011, 84, .	4.7	16
153	Analysis of the $B \rightarrow 0 \nu \nu$ channel. Physical Review D, 2011, 83, .	4.7	100
154	Measurement of the $B \rightarrow 0 \nu \nu$ branching fraction. Physical Review D, 2011, 84, .	4.7	100
155	Dalitz plot analysis of $B \rightarrow 0 \nu \nu$. Physical Review D, 2011, 83, .	4.7	100
156	Measurement of the $B \rightarrow 0 \nu \nu$ branching fractions, the $B \rightarrow 0 \nu \nu$ form-factor shape determination of $ V_{ub} $. Physical Review D, 2011, 83, .	4.7	29
157	Measurements of branching fractions and studies of angular distributions for $B \rightarrow 0 \nu \nu$. Physical Review D, 2011, 84, .	4.7	9
158	A REVIEW OF THE MAGNITUDES OF THE CKM MATRIX ELEMENTS. International Journal of Modern Physics A, 2008, 23, 4945-4958.	1.5	2
159	Electro-Weak Penguin and Leptonic Decays in BaBar. Nuclear Physics, Section B, Proceedings Supplements, 2006, 156, 190-194.	0.4	0
160	Measurements of the Absolute Branching Fractions of $B \rightarrow 0 K^* \nu \nu$. Physical Review Letters, 2006, 96, 052002.	7.8	71